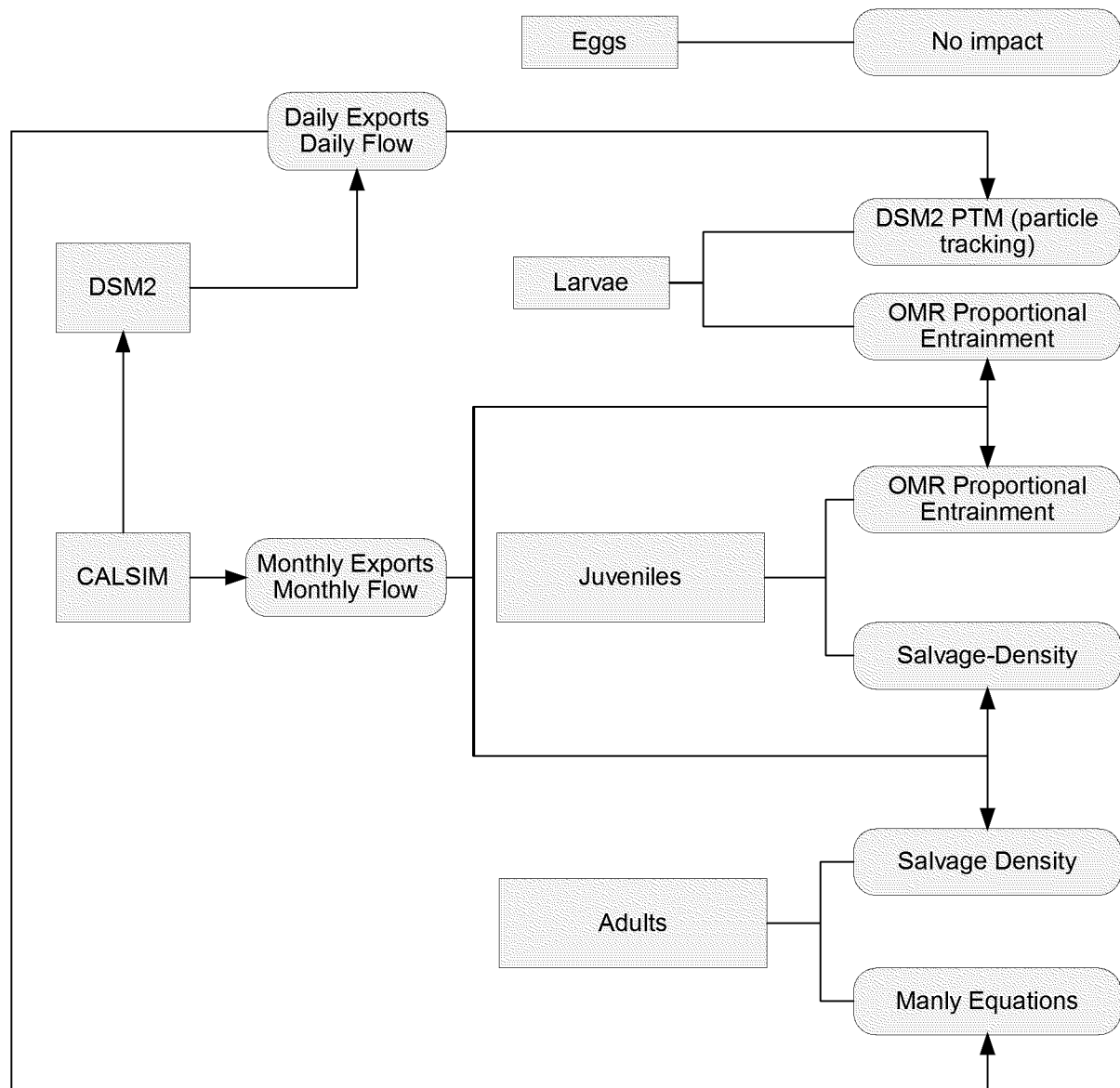
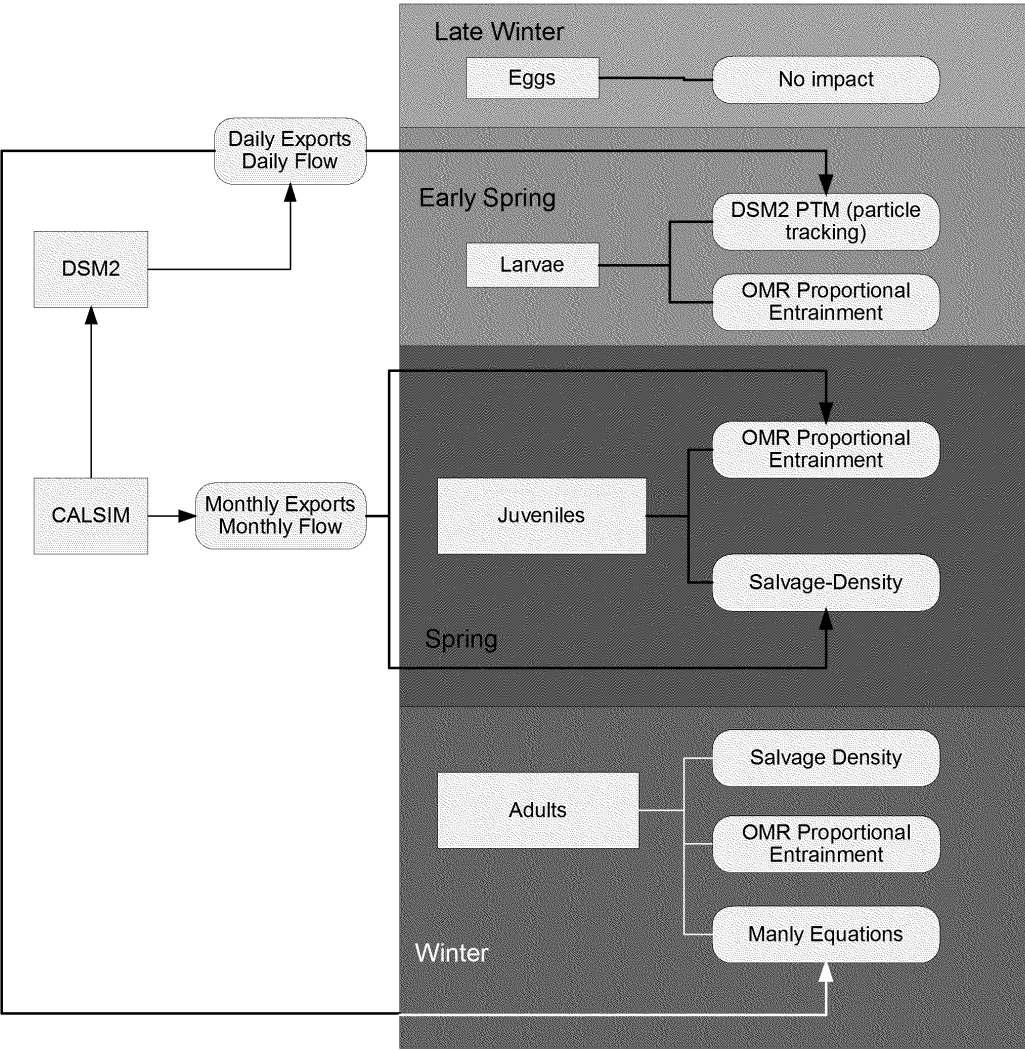


Delta Smelt Entrainment-South Delta



Delta Smelt Entrainment-South Delta



Hypotheses

Eggs are demersal and adhesive. Therefore they are not entrained in South Delta pumps.

Larvae lack swim bladder and have little or no ability to swim or orient. They move with water flow and therefore can be modeled as neutrally buoyant water particles, based on the distribution in the 20mm trawl and DSM2-PTM

Juveniles can swim and orient but move toward pumps in relation to negative OMR, turbidity and other factors. Entrainment can be estimated by scaling up estimates of juveniles in salvage at SWP and CVP fish facilities. All smelt salvage assumed to be mortalities. Salvage density figures entrainment as a proportion of exports; OMR proportional entrainment calculates entrainment loss as a proportion of South Delta abundance a f(OMR, 20mm)

Adults can swim and orient but move toward pumps in relation to negative OMR, turbidity and other factors. Entrainment can be estimated by scaling up estimates of adults in salvage at SWP and CVP fish facilities. All smelt salvage assumed to be mortalities. Salvage density figures entrainment as a proportion of exports; OMR proportional entrainment calculates entrainment loss as a proportion of South Delta abundance a f(OMR, Kodiak). Manly projects entrainment based on detailed correlations of past patterns.

